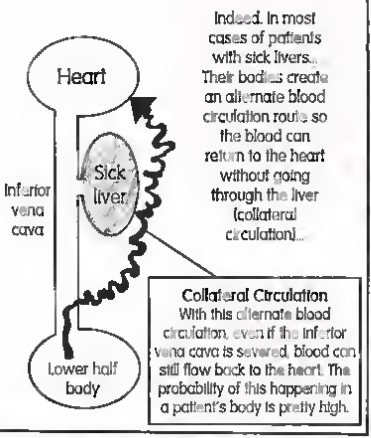
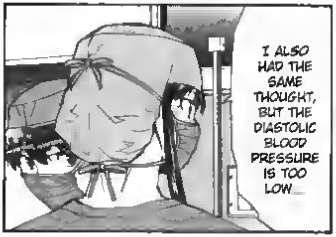
CHAPTER 58: IN YOUR HEART

NOW THE TENTING PROBLEM SHOULD BE SOLVED, AND THE BLOOD CAN FLOW OUT OF THE LIVER!
HOW IS IT, MIYABI ?!
YEAH, BLOOD HAS STARTED TO FLOW OUT FROM THE LIVER!
IT'S PRETTY SMOOTH!
GOOD!
BUT WHAT DO WE DO WITH THE BLOOD FROM THE LOWER HALF OF THE BODY?
THE LIVER IS SAVED, BUT HOW WITH THE INFERIOR VENA CAVA SEVERED BLOOD FROM THE LOWER HALF BODY LOSES IT'S WAY BACK TO THE HEART...
Heart
IT'S OKAY...
With the inferior vena cava severed, blood from the lower half stops here.


Heart
Sick liver
Inferior vena cava
Lower half body
Indeed. In most cases of patients with sick livers... Their bodies create an alternate blood circulation route so the blood can return to the heart without going through the liver (collateral circulation)...
Collateral Circulation
With this alternate blood circulation, even if the inferior vena cava is severed, blood can still flow back to the heart. The probability of this happening in a patient's body is pretty high.

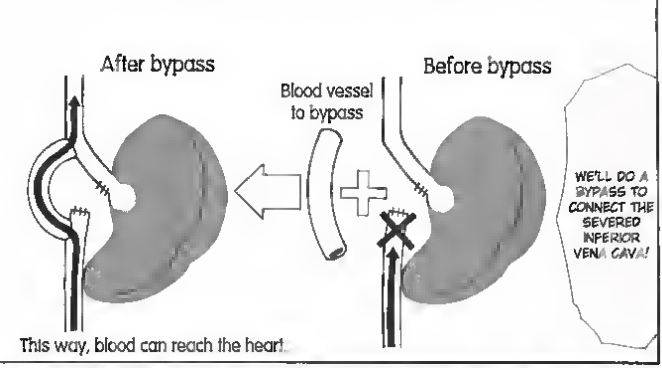
I SEE ...
FROM MY EXPERIENCE, PATIENTS WITH LIVER DISEASES USUALLY HAVE COLLATERAL CIRCULATION IN PLACE OF THE INFERIOR VENA CAVA.

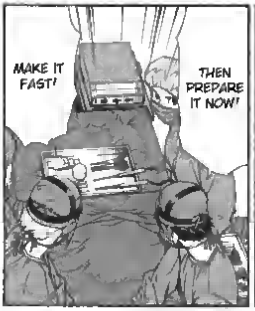
.....
SO MIKOTO HAS PREDICTED THIS!

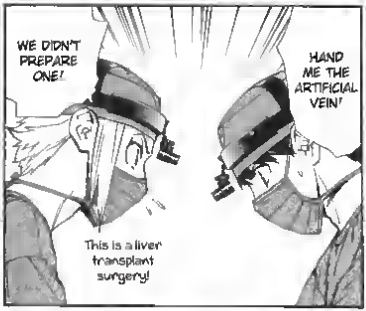

I ALSO HAD THE SAME THOUGHT, BUT THE DIASTOLIC BLOOD PRESSURE IS TOO LOW...

NO, MIKOTO! THAT WON'T WORK!

WH-WHY...
THIS KID HAS NO COLLATERAL CIRCULATION!
THIS IS BAD!
THE BLOOD PRESSURE SUDDENLY DROPPED!
BUT THIS TIME EVEN DR. SAIJOU IS IN TROUBLE.
WE'VE OVERCOME MANY HURDLES ALL THESE TIMES
IN THAT CASE, LET'S DO AN EMERGENCY BYPASS!
IT'S AT SO NOW!


After bypass
Before bypass
Blood vessel to bypass
WE'LL DO A BYPASS TO CONNECT THE SEVERED INFERIOR VENA CAVA!
This way, blood can reach the heart.


MAKE IT FAST!
THEN PREPARE IT NOW!


WE DIDN'T PREPARE ONE!
HAND ME THE ARTIFICIAL VEIN!
This is a liver transplant surgery!

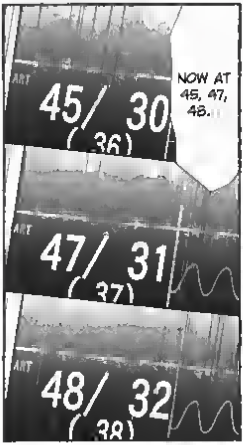
BUT IT! CLAMPING PORTAL VEIN...
STOP IT! STOP THE BLOOD-FLOW!
WE STILL CAN'T TRUST MINE!...
LET'S MONITOR IT M-
IF I DIDN'T HESITATE THAT TIME, MAYBE THE SITUATION WOULDN'T BE THIS BAD.....

GEEZ, DAMN ME!

IN THAT CASE, PLEASE USE THIS!
!?
WAIT!
NOW WHO IS THE ONE GETTING IN THE WAY OF THIS SURGERY...
THIS CAN BE USED RIGHT AWAY.
ACTUALLY, IN CASE OF AN UNEXPECTED SITUATION LIKE THIS, WE ALSO COLLECTED THE DONOR'S ILIAC VEIN
WH-WHAT'S THAT?
OH, THAT'S A LIFE SAVER!
DIFFERENT FROM ARTIFICIAL VEINS, THIS WON'T BE IDENTIFIED AS A FOREIGN OBJECT. THE PROBABILITY OF REJECTION SHOULD BE LOWER.

YOU'RE WELCOME.
THANK YOU, DR. MANAKA!
C-CRAP... I CAN'T TRUST THIS WOMAN YET...
OKAY, LET'S USE THAT!
WAIT, MAYBE SHE DID SOMETHING TO THAT...
COMMENCING EMERGENCY BYP[illegible]SS!
THIS SITUATION MUST NOT GO ON ANY LONGER!
WAIT, MIKOTO!
THE BLOOD PRESSURE IS STILL FALLING! BELOW 50 NOW!
WE'LL USE CONTINUOUS SUTURE!
BLOOD PRESSURE'S APPROACHING 40!
WE DON'T HAVE TIME FOR THAT!
BEFORE USING, WE SHOULD CHECK IT FI[illegible]

ARRGH, WHATEVER HAPPENS, HAPPENS!
I KNOW!
HELP ME OUT, QUICK!


ART
45/ 30
(36)
ART
47/ 31
(37)
ART
48/ 32
(38)
NOW AT 45, 47, 48.

OKAY, BYPASS COM-PLETED!

HOW'S THE BLOOD PRES-SURE?!

GOOD, IT'S RECO -VERED!
PHEW ...
WHAT'S LEFT IS TO SEW THE HEPATIC LIGAMENT AND THE DIAPHRAGM TOGETHER, THEN ADJUST THE LIVER'S POSITION
GOOD, HE'S STABLE NOW.
AGREED
SOMEHOW, THAT FELT LIKE IT TOOK THE LIFE OUT OF ME

LET'S END THIS IN A GO!
YES!
.....

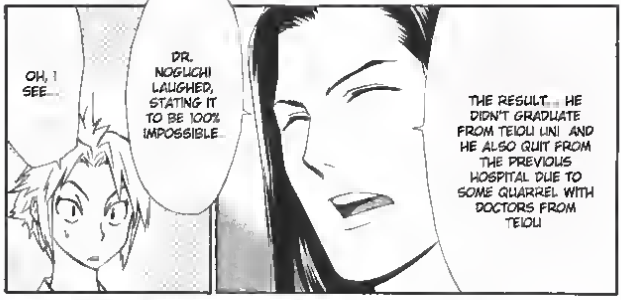
IN THE END, BOTH MIYABI AND MANAKA WHOLEHEARTEDLY COOPERATED WITH THE SURGERY

BUT THIS IS WEIRD

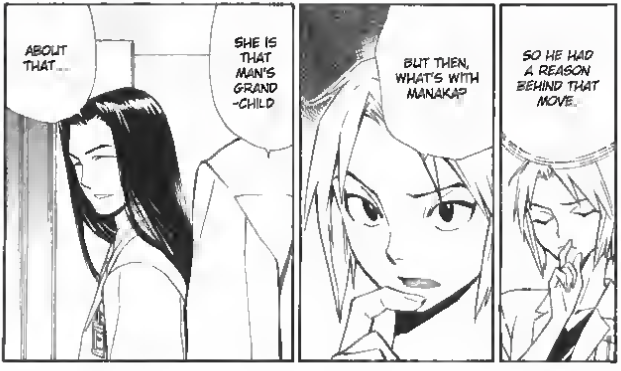
JUST WHAT IS GOING ON HERE?

IN THAT CASE, PLEASE USE THIS!
NOW WHO IN THE HELL IS GETTING IN THE WAY OF THIS SURGERY!
WH-WHAT'S THAT?
ACTUALLY, IN CASE OF AN EMERGENCY, IT'S RETURN LINE. THUS, WE ALSO COLLECTED THE PATIENT'S BLACK VEIN
OH, THAT'S A LIFE SAVER!
MOREOVER, IT'S SAFE TO SAY THEY BOTH SAVED US FROM BIG TROUBLES DURING IT...
STOP IT! STOP THE BLOOD FLOW!

ASSC. DIRECTOR
OFFICE
EH...
BOTH OF THEM ARE INNOCENT.
WELL,
IF I AM TO DRAW ANY CONCLUSIONS ...
ACTUALLY, I HAD A CALL WITH DR NOGUCHI JUST NOW I ASKED HIM ABOUT THE POSSIBILITY OF DR. KOUSHIMA BEING THE SPY.
YES
Y- YOU THINK SO?


THE RESULT... HE DIDN'T GRADUATE FROM TEIOU UNI AND HE ALSO QUIT FROM THE PREVIOUS HOSPITAL DUE TO SOME QUARREL WITH DOCTORS FROM TEIOU
DR. NOGUCHI LAUGHED, STATING IT TO BE 100% IMPOSSIBLE.
OH, I SEE...

SPEAKING OF WHICH, DURING THAT POWER DISPUTE, HE PRO-ACTIVELY PERSUADED MIKOTO TO STAND FORWARD.
I THINK IT'S TIME YOU STEPPED UP AND BECAME A LEADER.
I WONDER, THAT ARROGANT ATTITUDE... ARE YOU SOME KIND OF NOBLE?
WHAT A TROUBLE MAKER PUTTING IT
MIKOTO, DID YOU PUSH HIM INTO IT?
EVEN IF YOU WON'T ADMIT IT, EVERYONE IN KLEIS IS STARTING TO SEEK YOU AS THE "BEST DOCTOR"


SO HE HAD A REASON BEHIND THAT MOVE...
BUT THEN, WHAT'S WITH MANAKA?
SHE IS THAT MAN'S GRAND-CHILD
ABOUT THAT...

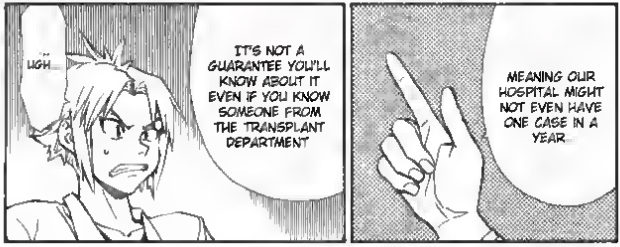
DESPITE BEING HIS GRANDCHILD, IT SEEMS THAT HER PARENTS HAD CUT ALL TIES WITH THE CHANCELLOR. AND THAT SHE HERSELF ALSO HATES HIM VERY MUCH, I HEARD.

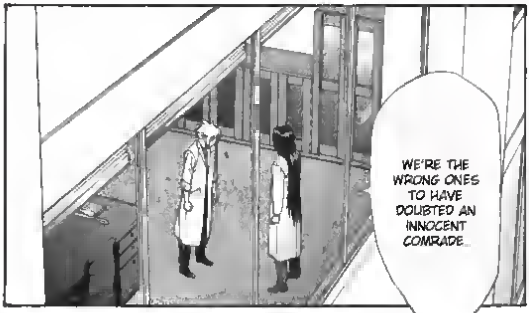
Y-YOU'RE KIDDING...
I didn't, though.
SHE TALKS ABOUT IT A LOT SO THE WHOLE TRANSPLANT DEPARTMENT KNOWS THIS.

.....!
WE HAVE GREATLY JUMPED TO THE WRONG CONCLUSION

TH-THEN, WE
YES, EXACTLY

THERE WERE FEWER THAN 10 BRAINDEAD DONOR CASES IN JAPAN LAST YEAR
THINK ABOUT IT.
MAYBE HE REALLY DIDN'T KNOW.
WOW... THAT'S UNBELIEVABLE!
I NEVER KNEW THIS HOSPITAL ALLOWS TRANSPLANTS FROM BRAINDEAD DONORS.
HUH?
W-WAIT! MIYABI PRETENDED TO NOT KNOW ABOUT THE BRAINDEAD TRANSPLANT IN THIS HOSPITAL IN FRONT OF ME...!


... UGH...
IT'S NOT A GUARANTEE YOU'LL KNOW ABOUT IT EVEN IF YOU KNOW SOMEONE FROM THE TRANSPLANT DEPARTMENT
MEANING OUR HOSPITAL MIGHT NOT EVEN HAVE ONE CASE IN A YEAR...


WE'RE THE WRONG ONES TO HAVE DOUBTED AN INNOCENT COMRADE...

GIVE IT UP, AYAME.

WHAT!?
PEDIATRIC SURGERY
.....
IF IT LEAVES A BITTER TASTE, YOU BETTER THINK OF A WAY TO APOLOGIZE PROPERLY.
DIDN'T I SAY SO!!
SEEMS SO.
SO THE THING ABOUT DR. MANAKA AND DR. MIYABI WAS A TOTAL MISUNDER-STANDING?!
IN MY HEART, I ALSO BELIEVE IN MIYABI
HEY, HEY, STOP THAT
DR. MIYABI WOULD NEVER DO SUCH A THING!
NOT AT ALL.
YOU KNOW IT, DON'T YOU?

BUT IF MIYABI KNOWS HE WAS BEING DOUBTED AFTER ALL THIS TIME, HE'LL FEEL SAD
I REALLY WANT TO.
SO WHAT ARE YOU GONNA DO NOW? YOU'LL APOLOGIZE PROPERLY, WON'T YOU?
I NEED YOUR HELP...
M-MIYABI!
HEY AYAME
WHAT A WAY TO REFLECT ON YOURSELF
.....
I THINK I'D BETTER KEEP SILENT FOR HIS OWN GOOD
W-WELL WHAT CAN I HELP WITH?
WHY ARE YOU SUDDENLY SO POLITE TO ME?
AH ACTUALLY.
HUH?
H-HOW CAN I BE OF HELP TO YOU?

BADUMP
ABOUT HOW I WAS THE ONLY ONE TO REALIZE THE OUTFLOW BLOCK DURING THAT SURGERY...
I NOTICED THE PROBLEM TOO SOON, THAT'S WHY
It's natural to feel cautious.
AH, ABOUT THAT I'M SORRY I...
I HAVE NO INTENTION OF BLAMING YOU FOR STOPPING ME
BUT SO THAT EVERY ANAESTHETIST IS ABLE TO NOTICE IT AS SOON AS IT OCCURS AS WELL, I'M THINKING OF PUBLISHING A THESIS ABOUT IT.
I WISH TO CONFIRM THE CHANGE OF THE CENTRAL VENOUS PRESSURE AND THE SURGERY'S SITUATION TOGETHER.
WHAT... SO IT'S ABOUT THAT...
O-OF COURSE!
I'LL HELP ANYTIME YOU ASK!

THEN WILL YOU HELP WITH CHECKING PAST FOREIGN THESES AS WELL?
You studied overseas so I bet your English is good.
OH, THAT'S A GREAT COINCI-DENCE FOR YOU.
JUST KIDDING
TO TELL THE TRUTH, I'VE BEEN INTERESTED IN ANAESTHESIOLOGY SINCE LONG AGO AND I'VE BEEN THINKING ABOUT STUDYING IT FOR REAL
O-OF COURSE I DO
WHAT? YOU DON'T WANT TO?
TH-... 300?!
GULP
THERE ARE 300 THESES IN ENGLISH ALONE...
IT'LL BE FUN. ANAESTHESIOLOGY IS DIFFICULT BUT IT'S EXTRAORDINARILY DEEP...
YOU SHOULD HAVE NEVER DOUBTED YOUR COMRADE.
I'LL GLADLY HELP.
I SEE.
YEP... YOU REAP WHAT YOU SOW, DR. AYAME

BLAST Comic

TRANSLATOR
SHOUGEI

PROOFREADER
KOHAE

CLEANER & REDRAWER
SKAZOFF

TYPESETTER
LACIE

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SINCE OUR STAFF ARE NOT DOCTORS OR WORKING IN MEDICAL FIELDS, SOME MEDICAL TERMS ARE BOUND TO BE INCORRECT. IF YOU FIND ANY, KINDLY TELL US AND WE'LL FIX IT RIGHT AWAY. THANKS

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I CAN'T TAKE IT ANYMORE...
TOO MANY PROJECTS AND NOT ENOUGH HANDS...
WHY WON'T PEOPLE COME AND HELP US?
Kimiaru
Hell Teacher Nube Neo
Tomogui
Sigh
LOOK AT ALL THESE NEW PROJECTS... THEY LOOK SO INTERESTING,
YET, WE CAN'T PICK THEM UP BECAUSE WE LACK STAFF...
Raibai Izuna
EVEN OUR CURRENT PROJECTS ARE ON THE VERGE OF BEING DROPPED...
Poor babies
CHEER UP! MAYBE SOMEONE WILL APPLY AFTER SEEING THIS AD.
HM?
WHAT ARE YOU WAITING FOR? SEND YOUR APPLICATION IN NOW!

WE NEED ALL SORTS OF HELP! TRANSLATOR / PROOFREADER / CLEANER / TYPESETTER ALL NEEDED.
SEND YOUR APPLICATION TO BCSCANS@GMAIL.COM.